

#### **4.2.4.2 Site Infrastructure**

Pantex would be capable of supporting any of the storage alternatives without major modifications to the existing infrastructure. A comparison of site infrastructure and facilities resource needs for the storage alternatives is shown in Table 4.2.4.2–1. Neither the addition of all or part of the material currently stored at RFETS and LANL nor the removal of strategic reserve and weapons R&D material would require major site infrastructure changes at Pantex.

##### **No Action Alternative**

Because of the downsized production mission after nuclear weapons stockpile dismantlement actions are complete, a considerable reduction in site infrastructure requirements is expected to occur. As a result, Pantex can accommodate the No Action Alternative using the site infrastructure that is currently in place at the site.

##### **Upgrade Alternative**

###### ***Preferred Alternative: Upgrade With Rocky Flats Environmental Technology Site Plutonium Pits Subalternative***

###### ***Modify Existing Zone 12 South Facilities for Continued Plutonium Storage***

Construction to upgrade the existing storage facility to accommodate long-term storage of Pu currently at Pantex and RFETS pits would not affect the site infrastructure. Data for construction are presented in Appendix C. As shown in Table 4.2.4.2–1, operating the upgraded facility would not significantly affect the site infrastructure. All infrastructure requirements are within site capacities.

###### ***Upgrade Without Rocky Flats Environmental Technology Site Plutonium or Los Alamos National Laboratory Plutonium Subalternative***

###### ***Modify Existing Zone 12 South Facilities for Continued Plutonium Storage***

The Upgrade Without RFETS Pu or LANL Pu Subalternative is similar to the Upgrade With RFETS Pu Pits Subalternative because the modified facilities in Zone 12 South would be designed with adequate capacity to store all of the RFETS Pu pits. No additional resources would be required and therefore the impacts would be the same.

###### ***Upgrade With All or Some Rocky Flats Environmental Technology Site Plutonium and Los Alamos National Laboratory Plutonium Subalternative***

###### ***Modify Existing Zone 12 South Facilities for Continued Plutonium Storage***

Construction to upgrade the existing storage facility to accommodate long-term storage of existing quantities of Pantex, RFETS Pu, and LANL Pu material would have minimal impacts on the site infrastructure. Data for construction and operations presented in Appendix C are much larger than expected and are bounded by the Construct New and Modify Existing Zone 12 South Facilities Collocation Option. As shown in Table 4.2.4.2–1, other than some added roadway, the operational infrastructure resource requirements are within site capacities.

Since impacts associated with storing all of the RFETS Pu and LANL Pu material at Pantex for long-term storage are minimal for construction and can be managed for operations, storing only a portion of the RFETS Pu and LANL Pu material at Pantex would result in minimal impacts to the site infrastructure as well. [Text deleted.]

## **Consolidation Alternative**

### *Construct New and Modify Existing Zone 12 South Facilities*

Construction to modify the existing storage facility to consolidate long-term storage of Pu would have minimal impacts on the site infrastructure. Data for construction are presented in Appendix C. As shown in Table 4.2.4.2-1, some additional roadway would be required; the electrical and fuel infrastructure requirements for operations are within site capacities. [Text deleted.]

### *Construct New Plutonium Storage Facility*

Construction of a new facility to consolidate long-term storage of Pu would have minimal impacts on the site infrastructure. Data for construction are presented in Appendix C. As shown in Table 4.2.4.2-1, some additional roadway would be required; the electrical and fuel infrastructure requirements for operations are within site capacities.

## **Collocation Alternative**

### *Construct New Plutonium and Highly Enriched Uranium Storage Facilities*

Construction for the collocated Pu and HEU storage facilities would have minimal impacts on the site infrastructure. Data for construction are presented in Appendix C. As shown in Table 4.2.4.2-1, some additional roadway would be required; the electrical and fuel infrastructure requirements for operations are within site capacities.

## **Subalternative Not Including Strategic Reserve and Weapons Research and Development Materials**

Since the existing Pantex site infrastructure would be capable of supporting construction/modification and operation of facilities for the No Action, Upgrade, Consolidation, or Collocation Alternatives, operating such facilities without including provisions for storage of strategic reserve and weapons R&D materials could be accommodated as well. Expected reductions in amounts of annual electrical energy requirements for the various storage facilities are the only site infrastructure changes expected if this subalternative is chosen because electric usage is dependent on the amount of material. [Text deleted.]

## **Phaseout**

Pantex would be left with its weapons assembly/disassembly and HE fabrication missions. There would be no effects on the site infrastructure.